

# MORTAR BALLISTIC COMPUTER

## DESCRIPTION

The Mortar Ballistic Computer (MBC) will automate technical mortar fire direction and replace the M16 and M19 plotting boards as the primary means of computing 60mm and 81mm mortar firing data. The end-state MBC system will consist of a ruggedized, handheld device utilizing the latest Windows-based operating system to host the Mortar Ballistic Kernel software. This stand-alone system will be fielded to 60mm mortar sections at the infantry company level, and 81mm mortars at the infantry battalion level and an interoperable system will be fielded to 120mm mortar sections.

## OPERATIONAL IMPACT

The MBC will provide faster, safer, more accurate computation of firing data under all combat and training conditions. The MBC will replace the M16 and M19 plotting boards as the primary means used by mortar fire direction center (FDC) personnel to compute ballistic firing data for Marine Corps mortar systems. The MBC will provide the primary means by which

FDC personnel convert requests for fire to appropriate firing data and fire commands by automating the computation and display of accurate firing solutions.

The MBC will provide the capability of an automated firing solution that accounts for non-standard conditions. Without this capability mortars must fire time-consuming registration missions that needlessly expend ammunition against inactive targets, while divulging their own location.

## PROGRAM STATUS

MBC is an Acquisition Category III, Army-led, joint-interest program. The MBC project office is coordinating with Program Manager of the Mortars Fire Control System Light project office to leverage their Pocket Mortar Ballistic (PMBC) software effort. A Research, development, test, and evaluation effort began in the first quarter of FY 2003 to develop the MBC with Army program manager software on non-developmental hardware.

### PROCUREMENT PROFILE:

Quantity:

FY 04

0

FY 05

0

### DEVELOPER/MANUFACTURER

Software and Integration: Program Manager, Mortars Fire Control System Light,  
Picatinny Arsenal, Ft. Monmouth, NJ

Hardware: Obtained from US Government General Services Administration